# GROUP 4

**1) What is the primary purpose of the Fast Fourier Transform? (Uğur Özkan)**

A) To calculate the convolution of two signals

B) To determine the frequency spectrum of a signal

C) To smooth a noisy signal

D) To perform amplitude scaling

E) To increase the length of the signal

**Answer: B**

**2) What is the purpose of using FFT when processing frames from a Dynamic Vision Sensor (DVS)?**  
A) To analyze frequency-domain characteristics of event-based data, such as detecting periodic patterns or motion-related frequencies in the captured events and noise filtering.

B) To directly enhance the resolution of RGB frames captured by the DVS.

C) To convert event-based data into real-time videos with audio signals.

D) To filter out all event data and retain only RGB images.

**Answer: B**